Jacob <u>Guttenplan</u>

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20223 Saint Francis St Livonia, MI 48152

Bachelor of Science Computer Engineering University of Pittsburgh 2017

Outstanding Achievement Award in Technology

Dock Academy High School 2012

Collegiate Activities: Formula SAE – Panther Racing

Sept 2014-Aug 2017 Electronics Lead 2016-2017

Student-Driven collegiate race car design competition

Responsibilities included:
Onboard Electrical and
computer system design,
wiring harness design &
production, and Data
Acquisition & Analysis

Ranked Top 10% worldwide during participation period

Skills

Languages: Java; C/C++; PHP; HTML; Python; JavaScript; MySQL; VBA; Simulink **Tools/Other** Source Control practices (Git, SVN, etc.); Docker containerization; Linux; Agile Management Methodology; Scrum Development Process; Object Oriented design principles; Test Driven Development; Excellent Communication Skills; High Microsoft Office Proficiency.

Automotive Related: ISO 26262 Software Dev. Safety Training Cert. (TÜV/Nord); HiL/SiL testing; Powertrain Test Cells configuration; AUTOSAR Framework; CAN Network Communications

Work Experience

AVL Powertrain Engineering Inc, Plymouth, MI

Project Engineer I - Controls & Electrification

July 2017 - Present

- Provided solutions for Lithium-Ion Battery Management System (BMS)
 Applications for various prototype and production vehicle applications
- Coordinated directly with clients during sales, development and commissioning stages of projects, ensuring expectations are met and properly managed
- Designed and Developed rapid prototype sales tool for presentation to potential clients, resulting in multiple ongoing project awards for six full-time engineers.
- Developed AUTOSAR compliant Embedded Engine and Transmission physicsbased control systems for a major Automotive Manufacturer, replacing industrystandard empirical control theories.
- Used Simulink Automatic C Code Generation to develop embedded controls solutions that were verified with Hardware-in-Loop and Vehicle Testing

Savvior Technology Solutions, Pittsburgh, PA

Web Applications Development Co-op

September 2014 – August 2016

- Worked directly with management and clients to develop project goals
- Took ownership of several new backend features of current and upcoming core products
- Collaborated with Front End Designers and clients to create clean, intuitive User Experience (UX) designs that matched the clients' corporate brand identity and image
- Designed new products with the intent to be reused and incorporated in various future projects
- Increased unit test coverage in core product codebase from 65% to 90%

University of Pittsburgh – Student Computing Services

Technical Consultant

August 2012 - July 2017

- Provided tier two technical support to university students, faculty, and staff
- Uncovered source of major network issue plaguing half of a student dormitory, despite Network Operations Department's prior repeated efforts and failed diagnosis attempts
- Diagnosed and repaired network connection issues, performed malware removal, resolved driver and operating system supporting Windows, OSX, and Linux